

CLAIMS

What is claimed is:

1. A system for providing wireless monitoring and control
5 of remote devices, said system comprising:

a plurality of first transceivers each having a first
wireless communications device and each said first
transceiver being coupled to a keyboard, a video monitor
and a cursor control device for receiving signals from said
10 keyboard and said cursor control device; and

a plurality of second transceivers each having a
second wireless communications device and each said second
transceiver being coupled to at least one of said remote
devices for receiving video data from said remote devices
15 and for transmitting said video data to said receiver over
a wireless network.

2. A system according to claim 1, wherein said wireless
network is an 802.11 wireless network.

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3. A system according to claim 2, wherein said wireless
network is an ad-hoc wireless network.

4. A system according to claim 2, wherein said wireless network is an infrastructure wireless network.

5. A system according to claim 1, wherein said wireless
5 network is a Bluetooth network.

6. A system according to claim 1, wherein said wireless network includes a wireless enabled switch.

10 7. A system according to claim 1, wherein each said first transceiver includes circuitry for displaying a list of said remote devices on said video monitor.

8. A system according to claim 7, wherein each said first
15 transceiver transmits a connection request message to one of said plurality of second transceivers in response to a user's selection from said list.

9. A system according to claim 8, wherein said connection
20 request message includes a select channel for wireless communications between said first and second wireless communications devices over said wireless network.

10. A system according to claim 7, wherein said list is generated by an on-screen display processor.

11. A system according to claim 7, wherein said list is
5 generated by software implemented on a general purpose processor.

12. A system according to claim 7, wherein said list includes information related to said remote devices.

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13. A system according to claim 12, wherein said list is automatically updated with additional remote devices.

14. A system according to claim 1, wherein said video data
15 is compressed before being transmitted by said second wireless communications device of said second transceivers.

15. A system according to claim 1, wherein said video data, said keyboard data, and said cursor control device
20 data is encrypted before being transmitted by said first and said second wireless communications devices over said wireless network.

16. A method of transmitting keyboard signals, cursor
control device signals and compressed video signals between
a workstation connected to a video monitor a keyboard and a
cursor control device and a select computer over a wireless
5 network comprising the steps of:

displaying a menu of available computers on said video
monitor of said workstation;

receiving a user request to operate a select computer
from said available remote computers;

10 transmitting a connection request message from said
workstation to said select computer over said wireless
network in response to said user request;

transmitting video signals from said select computer
to said workstation for display on said video monitor over
15 said wireless network; and

transmitting keyboard and cursor control device
signals from said keyboard and cursor control device of
said workstation to said select remote device over said
wireless network.

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17. A method according to claim 16, said method further comprising the step of:

updating said menu of available remote devices with additional remote devices.

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18. A method according to claim 16, said method further comprising the step of:

updating said menu of available remote devices automatically as said remote devices enter or leave said wireless network.

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19. A method according to claim 16, wherein said wireless network is an 802.11 wireless network.

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20. A method according to claim 19, wherein said wireless network is a peer-to-peer wireless network.

21. A method according to claim 19, wherein said wireless network is an infrastructure mode wireless network.

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22. A method according to claim 19, wherein said wireless network is a Bluetooth wireless network.

23. A wireless remote network management system for
remotely monitoring and controlling devices comprising:

a plurality of first wireless-enabled transceivers
each coupled to a keyboard, a video monitor and a cursor
5 control device;

a plurality of second wireless-enabled transceivers
each coupled to a remote device; and

a central switch enabled for wireless communication
and wired communication;

10 wherein each said first wireless-enabled transceiver
communicates keyboard and cursor control device signals
from said keyboard and said cursor control device to said
central switch via a first wireless network,

wherein said central switch routes said signals via a
15 second wireless network to one of said second wireless-
enabled transceivers,

wherein each said second wireless-enabled transceiver
communicates video data via said second wireless network
from said remote device to said central switch,

20 and wherein said central switch communicates said
video data to one of said plurality of first wireless-
enabled transceivers via said first wireless network.

24. A system according to claim 23, wherein said first wireless network and said second wireless networks are 802.11 wireless networks.

5 25. A system according to claim 23, wherein each said first transceiver includes circuitry for displaying a menu of said remote devices on said video monitor.

26. A system according to claim 25, wherein each said
10 first transceiver transmits a connection request message to the central switch and the central switch transmits the connection request message to one of said plurality of second transceivers in response to a selection from said menu.

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27. A system according to claim 25, wherein said menu is generated by an on-screen display processor.

28. A system according to claim 25, wherein said menu is
20 generated by software implemented on a general purpose processor.

29. A system according to claim 28, wherein said menu includes information related to said remote devices.

30. A system according to claim 29, wherein said menu is automatically updated with additional remote devices.

5 31. A system according to claim 23, wherein said video data is compressed before being transmitted by said second transceiver.